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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/594,153	08/06/2007	Masanobu Kusunoki	SAK-5524	6069	
	7590 06/09/201 & MALUR, P.C.	EXAMINER			
1800 DIAGON		BAND, MICHAEL A			
SUITE 370 ALEXANDRIA	A, VA 22314		ART UNIT	PAPER NUMBER	
			1795		
			MAIL DATE	DELIVERY MODE	
			06/09/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No. Applicant(s)						
		10/594,153		KUSUNOKI ET AL.				
Office Action Summary			Examiner		Art Unit			
			MICHAEL BAN	ND	1795			
 Period for	- The MAILING DATE of this commun Reply	nication appe	ears on the co	ver sheet with the c	orrespondence ac	ddress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) file	ed on <i>18 Ma</i>	v 2010					
•	Responsive to communication(s) filed on <u>18 May 2010</u> . This action is FINAL . 2b) This action is non-final.							
—		′—			secution as to the	e merits is		
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims							
4) 🛛 (☑ Claim(s) <u>1-12</u> is/are pending in the application.							
4	4a) Of the above claim(s) <u>6-12</u> is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
· · _	☑ Claim(s) <u>——</u> is alle allowed. ☑ Claim(s) <u>1-5</u> is/are rejected.							
-	Claim(s) <u>1</u> is/are objected to.							
•	Claim(s) are subject to restric	ction and/or	election requi	rement.				
Applicatio			•					
	-							
-	he specification is objected to by th							
· ·	he drawing(s) filed on <u>25 September</u>		•	·	-	miner.		
	Applicant may not request that any obje			-				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Fation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 9/25/2006.	PTO-948)	4) [5) [6) [Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	te			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group I, claims 1-5 in the reply filed on 5/18/2010 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 6-12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Group, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 5/18/2010.

Claim Objections

2. Claim 1 is objected to because of the following informalities: contains limitations that are in parenthesis. It is not clear as to whether the subject matter in the parenthesis is actually being claimed. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 contains the limitation requiring that the

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backside may be exposed to particles. It is unclear if the backside is actually exposed to the particles or not. For examination purposes, the claim has been interpreted as 'the second principle surface is exposed'. Claim 2 contains the limitation of the particulate thin material introduced so as to diverge it and increase density as it approaches on the first principle surface. It is unclear to what the term "it" references.

Claim Rejections - 35 USC § 102

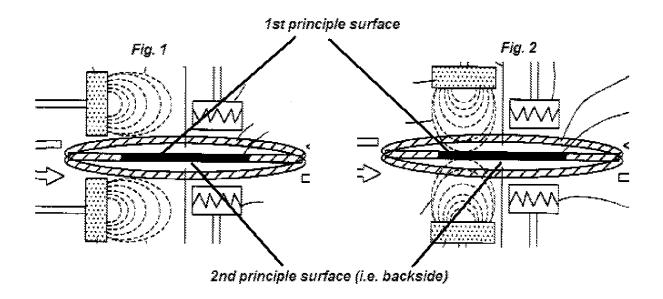
5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Suh et al (US Patent No. 6,280,580).

With respect to claims 1-5, Suh et al discloses a method of manufacturing a double-sided metal superconducting oxide thin film (abstract; col. 2, lines 56-58), where figs. 1-2 depicts sputter targets [1], [2] depositing material onto a first principle surface having an extension of an in-plane direction and a second principle surface (i.e. backside) of a substrate [6] where heaters [3], [4] heat said first principle surface and said second principle surface. Figs. 1-2 further depict the substrate [6] rotated about an axis that is normal to the first principle surface, with said axis represented by parts [9], [10]. Since Suh et al discloses introducing the material onto the first and second principle surfaces, it is expected that the introducing results in diverging and increasing

density of said material as it approaches said first and second principle surfaces. If not, it must be due to a claim limitation not currently present. The cropped figures below of figs. 1-2 serve to further clarify the first and second principle surfaces.



Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Patent Nos. 4,923,585; 6,057,271.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Band whose telephone number is (571) 272-9815. The examiner can normally be reached on Mon-Fri, 9am-5pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexa Neckel can be reached on (571) 272-1446. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

you have questions on access to the Private PAIR system, contact the Electronic

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. B./

Examiner, Art Unit 1795

/Alexa D. Neckel/

Supervisory Patent Examiner, Art Unit 1795